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WO 01/01749 A3

(54) Title: FVIIa ANTAGONISTS

(57) Abstract: This invention provides novel compounds which prevent or block a FVIIa mediated or associated process or event such as the catalytic conversion of FX to FXa, FVII to FVIIa or FIX to FIXa. In particular aspects, the compounds of the invention bind Factor VIIa (FVIIa), its zymogen Factor VII (FVII) and/or block the association of FVII or FVIIa with a peptide compound of the present invention. The invention also provides pharmaceutical compositions comprising the novel compounds as well as their use in diagnostic, therapeutic, and prophylactic methods.

INTERNATIONAL SEARCH REPORT

Int. l. Application No

PCT/US 00/18284

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K7/08 A61K38/10 G01N33/68 A61P7/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, STRAND, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	DENNIS, MARK S. ET AL: "Peptide exosite inhibitors of factor VIIa as anticoagulants" NATURE (LONDON) (2000), 404(6777), 465-470, 30 March 2000 (2000-03-30), XP002155500 the whole document --- -/--	17-44



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

19 December 2000

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08/01/2001

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INTERNATIONAL SEARCH REPORT

Int. .ional Application No

PCT/US 00/18284

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MORI, TETSUYA ET AL: "Analysis of promoter activity of 5'-upstream regions of zebrafish olfactory receptor genes" retrieved from STN Database accession no. 132:304194 XP002155502 abstract & BIOL. PHARM. BULL. (2000), 23(2), 165-173 , 24 March 2000 (2000-03-24), ----</p>	17
P,X	<p>DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ADAMS, MARK D. ET AL: "The genome sequence of Drosophila melanogaster" retrieved from STN Database accession no. 132:275066 XP002155503 abstract & SCIENCE (WASHINGTON, D. C.) (2000), 287(5461), 2185-2195 , 24 March 2000 (2000-03-24), XP002155501 ----</p>	17
A	<p>US 5 834 244 A (DENNIS MARK S ET AL) 10 November 1998 (1998-11-10) column 9, line 5 -column 13, line 6; claims ----</p>	17-44
A	<p>WO 97 20939 A (GENENTECH INC) 12 June 1997 (1997-06-12) claims; examples -----</p>	17-44

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

Continuation of Box I.2

Claims Nos.: 1-16

Present claims 1-12 relate to a compound defined by reference to a desirable characteristic or property, namely being able to bind to bind to FVIIa.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products/compounds/methods/apparatus. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product/compound/method/apparatus by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds claimed for in claims 17-26.

The initial phase of the search based on claims 13-16 revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claim(s) is impossible. Consequently, the search has been restricted to claims 17-26.

Present claims 27-44 relate to methods and compositions employing compounds of claims 1-26. According to the objections raised above the scope of the claims was restricted to methods and composition employing compounds claimed for in claims 17-26.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/18284

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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